

VOST Flow-Control Valve, Phase II

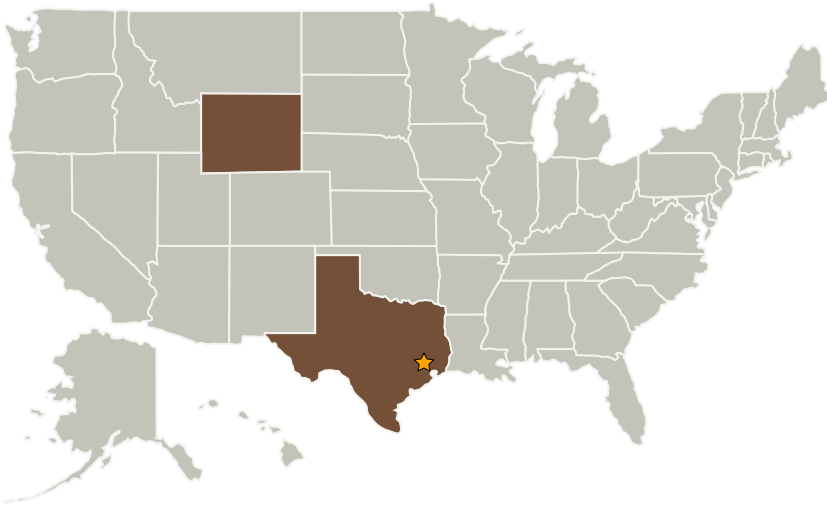
Completed Technology Project (2006 - 2008)



Project Introduction

Two cryogenic flow-control valves of diameters 1/2" and 2" will be built and tested. Based on cryogenically-proven Venturi Off-Set Technology (VOST) they have no stem-actuator, few moving parts, and an overall cylindrical shape. Intended to demonstrate a breakthrough in cryogenic flow control, VOST provides precise linear flow control across its entire dynamic range, holds position without power and requires low actuation energy.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Big Horn Valve, Inc.	Supporting Organization	Industry	Sheridan, Wyoming

Primary U.S. Work Locations

Texas	Wyoming
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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX01 Propulsion Systems
 - └ TX01.1 Chemical Space Propulsion
 - └ TX01.1.1 Integrated Systems and Ancillary Technologies